

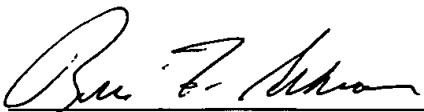
REMARKS

The foregoing amendments to the specification and claims of the instant application are being submitted in order to more specifically claim features which are fully disclosed in the application as originally filed. Notably, the portions added to the Detailed Description of the Invention essentially mirror the discussion set forth in the last full paragraph of the section entitled Brief Summary of the Invention, wherein the display of other and additional information relative to camera operation is discussed. The paragraphs added to the Detailed Description of the Invention also refer specifically to the use of a pressure sensor 82 and global positioning system 83 to determine and display depth and global positioning information on the video display. Amendments to the drawings to specifically reference such pressure sensor and global positioning device are being submitted for consideration by the Examiner under separate cover.

Also submitted herewith is a fee transmittal sheet and our firm's check in the amount of \$63.00 to cover the addition of seven (7) new claims. In the event the amount submitted herewith is insufficient in any respect, the Commissioner is hereby authorized to charge any additional amount due to our Deposit Account No. 19-0715 and notify us of the same.

In view of the above, it is believed that the foregoing amendments do not constitute new matter, and are fully supported by the original application as filed. Therefore, early consideration of the above amendments in connection with the instant application is respectfully requested.

Respectfully submitted,

  
Dated: 10/3/02  
\_\_\_\_\_  
Brian F. Schroeder, Reg. No. 32,435  
Schroeder & Siegfried, P.A.  
222 South Ninth Street, Suite 2870  
Minneapolis, Minnesota 55402  
Telephone: 612/339-0120

BFS:wls  
Enclosures



### Version with Markings to Show Changes Made

• Page 6, first four (4) paragraphs under section entitled DETAILED DESCRIPTION OF THE INVENTION

The block diagram shown in Fig. 1 displays the basic configuration of my improved remote viewing system incorporating relative directional indication. Although the following discussion will focus primarily on a system for displaying relative directional information for the camera with optional temperature data, it will be appreciated that other and additional information relative to camera operation, such as camera depth, absolute magnetic heading, and global positioning information, may also be readily displayed in a similar manner.

Thus, located within the camera module 1 is an image capture device or camera 2, and camera compass module 3. The camera compass module 3 is comprised of an electronic compass 4, microcontroller 5, power supply 6, and optional temperature sensor 7 and/or pressure sensor 82. Located within the display module 8 is a video display 9, display compass module 10, and power source 11, and optional GPS 83. The display compass module 10 comprises a similar electronic compass 12, microcontroller 13, and power supply 14 as utilized in the camera compass module 3, but also contains on-screen-display (OSD) electronics 15, and mode switches 16 and 17.

Switches 16 and 17 are used to select various operating modes. Switch 16 selects display modes such as RELATIVE, ABSOLUTE, TEMPERATURE ONLY, and OFF. Switch 17 is used to select between Fahrenheit and Celsius temperature display. These display module components are located within a housing separate from that of camera module 1, but are connected to camera module 1 by means of a cable 18 which contains conductors 19 and 20 for supplying power to the camera module 1 from the display module 8, as well as conductors 21 and 22 for transmitting the video and data signals from the camera module 1 to the display module 8.

Fig. 2 is an electrical schematic of a preferred embodiment of the camera compass module 3 with an optional temperature sensor 7. As shown therein, power supply 6 is a typical 5-volt regulator deriving supply voltage for the camera compass module circuitry from the 12V system power source 11. As shown in Figs. 2 and 3A, cable 18 is connected between output interface 23 of camera module 1 and input interface 24 of display module 8. Thus, power from source 11 is transmitted through cable 18 and along line 19a to power supply 6.

**Page 12, second full paragraph**

The display is updated rapidly, several times per second, so that as the camera or display is moved, the indicators move smoothly to indicate the viewing direction changes. As stated previously, it will be appreciated that, in a similar manner, other additional information relative to camera operation, such as camera depth, global positioning information, and absolute magnetic heading data, may also be displayed as optional features or enhancements. For instance, camera depth may be determined by incorporating a small pressure sensor 82 within the camera housing 1 to measure water pressure at camera level. Depth, which can be easily converted from water pressure, may then be calculated and displayed in the same video screen 9 in a similar manner.

CERTIFICATE OF MAILING

I hereby certify that the foregoing PRELIMINARY AMENDMENT is being deposited with the U.S. Postal Service as First Class Mail, in an envelope addressed to: Assistant Commissioner For Patents, Washington, D.C., this 3<sup>rd</sup> day of October, 2002.



Brian F. Schroeder